

## A B S T R A C T

A router (1) introduces virtual interfaces (3-1 - 3-n) between network interfaces (2-1 - 2-n) and a routing processing unit (4). The virtual interfaces (3-1 - 3-n) function to conceal a state such as a hit of  
5 the network interfaces (2-1 - 2-n) from the routing processing unit (4). One virtual interface is provided for each of the network interfaces (2-1 - 2-n). In the virtual interfaces (3-1 - 3-n), an up state, a down state, and a hit state are prepared as the states which  
10 the link takes. In the case of the hit state, the virtual interfaces (3-1 - 3-n) do not notify the routing processing unit (4) of a change in link state.